



PRODUCT DESCRIPTION
CTLS* AND *CTLS^{HL}
600 KG CLASS

MODEL YEAR 2011

Release March 01, 2011

Flight Design CTLS and CTLS^{HL} 600 kg Class Model Year 2011

Order No.	Description	Weight
BASIC AIRCRAFT SPECIFICATION - VALID FOR ALL PLATFORMS		
CTLS 600 kg Class		
Exterior		
Short wings with double winglets to reduce induced drag and increases directional stability		
Increased vertical fin area		
All- moving stabilator with 75% span antitab as elastic flap		
Optimized multi- layer two component exterior paint (white) with decals according to selected scheme		
Aeronautical Plexiglass windshield, door windows and skylight, green tinted		
Rear side windows to improve oversight		
Extra wide cabin doors with gas spring		
2 luggage compartments, accessible through cabin		
Cowling hatch for easy oil and water check		
MATCO main wheels with hydraulic disk brake system		
All tires size 4.00 - 6"		
Tires qualified for 120km/h and 300 kg per tire		
Tires classified for 6 Ply Rating (PR)		
Steerable elastomer damped front wheel		
Contoured composite main landing gear		
Long wheelbase		
Long fuselage tail boom		
Improved handling toughness due to reinforced composite layup		
Reinforced fairings		
Interior		
Two tone cabin interior paint, grey / anthracite, structured surface, high abrasion resistance		
Optimized seat adjustment (leg length and seat height coupled, inclination)		
4-point safety belts for each seat		
2 storage trays on the cabin floor		
Strap down hooks in the luggage compartment		
Access to luggage compartment covered with cloth		
Controls in area of luggage compartment protected with plexiglass covers		
Reinforced seats		
Elongated cabin interior size		
Hat rack behind the pilot seats		
Instrumentation		
Large instrument console with four single panels		
Easy accessible fuse and breaker panel on instrument console		
Radio Garmin SL-40 installed with antenna		
Push-to-Talk buttons on each control stick		
Transponder Garmin GTX 327 Mode A/C installed with antenna		
GPS Garmin AERA 510 XM America Database (AirGizmos AERA Panel Mount included)		
ELT KANNAD AF 406 Compact (406 MHz / 121.5 MHz transmission)		
Intercom PM 3000 A with aux music input and connection to GPS Audio		
Two Headset Telex Echelon 25 XT with plug connectors next to the seats		
Instruments certified by FTZ / FAA-TSO / EASA-ETSO (as required)		
Only available with flight- and engine instrumentation as per one platform selection below		
Engine		
Rotax 912 ULS (100 hp) installed ready to fly		
Advanced 3-blade ground adjustable composite propeller, spinner included		
Rotax engine warranty		
Air induction through aluminium Airbox installed to engine frame; round air filter integrated to air path		
Carburetor heating		
Optimised engine shock mounts to improve vibration damping		
Slipper Clutch as protection against shock loading of engine by ground contact of propeller		

Order No.	Description	Weight
Systems		
Dual controls, conventional, three axis		
Manual stabiliser trim by control wheel		
Electronic flap control with pre-selection switch		
Battery 12V / 7Ah Lead-Acid		
Combination key switch		
2 wing tanks, 65l each = 130 l total fuel		
Central, common fuel valve		
Optimized fuel system		
Common tank ventilation through winglets		
Rescue system, suitable for MTOW 600 kg, ASTM compliant		
Documents		
Aircraft Operation Manual in english		
Maintenance Manual in english		
Engine Logbook		
Airplane Logbook		
Flight Training Supplement in english		
Compliance		
ASTM F2245 compliant		
Maximum Takeoff Mass 600 kg (1320 lbs)		
Components ASTM compliant as required (Engine, Ballistic Recovery System)		
CTLS^{HL} LSA (MTOM 600 kg) Basic Aircraft Specification - valid for all CTLS LSA versions		
Aircraft		
As per CTLS 600 kg class basic aircraft specification above; with the following modifications :		
Exterior		
Stretched wings with double winglets to reduce induced drag and increases directional stability		
All- moving stabiliser with increased span and antitab as elastic flap		
Engine		
Rotax 914 UL (115 hp), 4-stroke, 4-cylinder horizontally opposed spark ignition engine with turbo charger and turbocharge control unit; installed ready to fly		
Air induction through aluminium Airbox (loaded by turbo charger) installed to engine frame; round air filter integrated to air path		
Systems		
Fuel system with two redundant electric fuel pumps, header tank, tank backflow line and fuel tank selector valve		
AIRPLANE BASIC PLATFORM INSTRUMENTATION		
CTLS: 70032	CTLS or CTLS^{HL} Club Analog (MTOM 600 kg)	326,5
CTLS^{HL}: 70042		349,4
Aircraft		
CTLS or CTLS ^{HL} 600 kg class as per basic aircraft specification above.		
Platform specific enhancements as follows:		
Instrumentation		
Flight Instrumentation including:		
Analog airspeed indicator (large)		
Analog three pointer altimeter (large)		
Analog vertical speed indicator (small)		
Magnetic compass with deviation table		
Slip indicator		
Engine Instrumentation using:		
Analog tachometer (small)		
Analog oil pressure gauge (small)		
Analog oil temperature gauge (small)		
Analog cylinder head temperature gauge (small)		
Hobbs hour meter		
Analog voltmeter (small)		
Altitude Encoder ACK A30		

Order No.	Description	Weight
CTLS: 70033	CTLS or CTLS ^{HL} Club D60 (MTOM 600 kg)	329
CTLS ^{HL} : 70043		351,9
Aircraft		
CTLS or CTLS ^{HL} 600 kg class as per basic aircraft specification above.		
Platform specific enhancements as follows:		
Instrumentation		
Flight Instrumentation EFIS-D60 providing:		
Single screen 7"		
Super bright screen		
Attitude		
Airspeed		
Altitude		
Vertical speed		
Gyro-stabilized magnetic compass		
Turn coordinator		
Voltmeter		
Engine Instrumentation using:		
Analog tachometer (small)		
Analog oil pressure gauge (small)		
Analog oil temperature gauge (small)		
Analog cylinder head temperature gauge (small)		
Hobbs hour meter		
Analog Instrumentation - providing redundancy together with Glass Screens:		
Analog airspeed indicator (small)		
Analog one pointer altimeter (small)		
Magnetic compass with deviation table		
Altitude Encoder Dynon (or ACK A30 for PtF / EASA ELA 1 aircraft)		
CTLS: 70035	CTLS or CTLS ^{HL} Advanced (MTOM 600 kg)	333,1
CTLS ^{HL} : 70045		356
Aircraft		
CTLS or CTLS ^{HL} 600 kg class as per basic aircraft specification above.		
Platform specific enhancements as follows:		
Instrumentation		
Flight Instrumentation as Glass Cockpit Dynon EFIS 100:		
Bright LCD Display		
Attitude indicator		
Airspeed indicator		
Altimeter		
Vertical Speed indicator		
Gyro-Stabilized Magnetic Compass		
Slip indicator		
Turn Rate		
Clock/Timer		
G-Meter		
Voltmeter		
Horizontal Situation indicator		
Angle of Attack warning		
Back-up battery		
Engine monitoring as Glass Cockpit Dynon EMS D120:		
Bright LCD Display		
Tachometer		
Oil pressure		
Oil temperature		
Cylinder head temperature		
Exhaust gas temperature		
Fuel flow		
Fuel pressure		
Manifold pressure		
Amperemeter		

Order No.	Description	Weight
	Voltmeter	
	Acoustic (coupled to Intercom) and optical warnings	
	Hobbs Hour Meter	
	Analog Instrumentation - providing redundancy together with Glass Screens:	
	Analog airspeed indicator (small)	
	Analog one pointer altimeter (small)	
	Magnetic compass with deviation table	
	Altitude Encoder Dynon (or ACK A30 for PtF / EASA ELA 1 aircraft)	
	Engine	
	Oil thermostat installed to the oil circuit	
	Water thermostat installed to the cooling water circuit	
CERTIFICATION		
70091	EASA Restricted Type Certificate as LSA Aircraft within ELA 1	-
	Aircraft produced in conformance with EASA Restricted Type Certificate	
	Non- certified Engine and Propeller (certified as part of the aircraft)	
	Aircraft produced under oversight of approved EASA Part 21 production organization	
	Aircraft documentation as required for registration at a National Aviation Authority in a EASA member state	
70092	CAAC Type Design Approval as LSA Aircraft	-
	Aircraft produced in conformance with Chinese CAAC Type Design Approval	
	Non- certified Engine and Propeller (certified as part of the aircraft)	
	Aircraft produced under oversight of approved CAAC production organization	
	Aircraft documentation as required for registration in China	
OPTIONS ENGINE		
70130	Power Package Rotax 914 Turbo 115 hp (upgrade from 912 ULS for CTLS)	16,0
	Rotax 914 ULS Turbo special version with airbox and fuel selector instead of basic package engine 912 ULS	
70120	Thermostat Package	3,8
	Oil thermostat installed to the oil circuit	
	Water thermostat installed to the cooling water circuit	
ACCESSORIES		
70200	Comfort Package Club Analog / Club D60	12,8
	Manual three axis trim system	
	Stainless steel exhaust system	
	Heat exchanger fitted to muffler to generate hot air for cabin heating	
	Heat distribution in cockpit to several air nozzles	
	Wheelpants and landing gear fairings on main wheels, combined wheelpant and leg fairing on nose wheel	
	12V auxiliary connector in cockpit	
	Double fresh air windows installed to the door windows	
	Two trays at the lower side of the instrument console	
	Map pockets at the main bulkhead	
	Pocket at each door	
	Door locks on both cabin doors	
	Parking brake	
	Anti Collision Lights and Position lights LED version	
	Cowling with Camlock quick fasteners	
	Deflectable sun visors	
	Sport seat with headrest	
	Reinforced landing gear "Cross Country"	
70201	Omission of sun visors	-0,7
70210	Nightflight Package Club Analog (only together with Comfort Package)	1,9
	Non- certified landing light, integrated to lower cowling	
70211	De- selectable: Trutak ADI- instrument to display bank angle, pitch and direction (electronic directional gyro); including backup battery providing 30 minutes emergency operation (according supplier specification) Attention: Required to fulfill ASTM Nightflight Standard!	-0,3
	Instruments with internal lighting or illuminated with UMA Light Bezels	
	UMA Light strip for center panel and throttlebox	
	Cabin light installed to main bulkhead	

Order No.	Description	Weight
	Illumination of the fuel indicators	
	Illumination brightness continuously variable	
	Anti- Collision- Light & Position Lights according ASTM Nightflight requirement included in Comfort Package	
70212	Nightflight Package Club D60 (only together with Comfort Package)	1,6
	Non- certified landing light, integrated to lower cowl	
	Instruments with internal lighting or illuminated with UMA Light Bezels	
	UMA Light strip for center panel and throttlebox	
	Cabin light installed to main bulkhead	
	Illumination of the fuel indicators	
	Illumination brightness continuously variable	
	Anti- Collision- Light & Position Lights according ASTM Nightflight requirement included in Comfort Package	
70230	Comfort Package Advanced incl. Nightflight Package	13,5
	Manual three axis trim system	
	Stainless steel exhaust system	
	Heat exchanger fitted to muffler to generate hot air for cabin heating	
	Heat distribution in cockpit to several air nozzles	
	Wheelpans and landing gear fairings on main wheels, combined wheelpan and leg fairing on nose wheel	
	12V auxiliary power connector in cockpit	
	Double fresh air windows installed to the door windows	
	Two trays at the lower side of the instrument console	
	Pocket at each door	
	Door locks on both cabin doors	
	Access to luggage compartment from outside, with separate door locks	
	Parking brake	
	Cowling with Camlock quick fasteners	
	Deflectable sun visors	
70231	Omission of sun visors	-0,7
	Non- certified landing light, integrated to lower cowl	
	All instruments illuminated, including backup instruments	
	UMA Light strip for center panel and throttlebox	
	Cabin light installed to cabin ceiling	
	Illumination of the fuel indicators	
	Illumination brightness continuously variable	
	Anti- Collision- Light & Position Lights to ASTM Nightflight requirement	
	Elastic luggage net on each hat rack side	
70240	Complete System for Glider and Banner Towing	5,8
	Reinforced fuselage tail boom	
	Reinforced ventral fin	
	Aerotow coupling with actuation handles in cockpit and at ventral fin	
	Removable rearview mirror attached under wing leading edge	
	Large oil- and water cooler	
70250	Landing Light (only with Comfort Package; included to Nightflight Package)	0,3
70251	Landing Light in LED technology (only with Comfort Package)	0,5
	Reduced power consumption due to LED technology (15W)	
70265	Tundra Wheels CTLS (only with Comfort Package)	6,5
	Main wheels 6.00 - 6"	
	Wheel pants fitted to match changed wheel size	
70270	Photowindow	0,7
	Additional photowindow in left door, 165 x 260 mm, sliding upwards	
	Fresh air window from Comfort Package remains unaffected	
70285	3-Blade Variable Pitch Propeller	5,5
	In-flight adjustable 3-blade propeller, mechanical-hydraulic	
	Mechanically adjustable propeller hub	
	High efficient, composite propeller blades	
	Composite spinner fitted for three bladed variable pitch propeller	

Order No.	Description	Weight
70287	3-Blade Constant Speed Variable Pitch Propeller	5,6
	Modification of variable pitch hub for electric actuation	
	Implementation of fast speed electric actuator	
	Constant speed controller, 2 ¼", installed to the instrument panel	
70290	Interior leather "Pegaso" brown including improved upholstery (only together with Comfort Package and Sport Seat)	2,5
	Seat covers for sport seat with headrest in leather "Pegaso" brown	
	Specifically cast-to-form upholstery	
	Inflatable cushions to allow fine adjustment of upholstery	
	Control stick covers in leather "Pegaso" brown	
	Map pockets in synthetic leather black	
	Two tone cabin interior paint, brown / beige matching with leather color, structured surface, high abrasion resistance	
	Anthracite carpets on the floor	
70295	Interior leather "Noir" black including improved upholstery (only together with Comfort Package and Sport Seat)	2,5
	Seat covers for sport seat with headrest in leather "Noir" black	
	Specifically cast-to-form upholstery	
	Inflatable cushions to allow fine adjustment of upholstery	
	Control stick covers in leather "Noir" black	
	Map pockets in synthetic leather black	
	Anthracite carpets on the floor	
70295-1	Two tone cabin interior paint, grey / anthracite matching with leather color structured surface, high abrasion resistance	0
70295-2	Two tone cabin interior paint, brown / beige structured surface, high abrasion resistance	0
70300	Seat Belts Amsafe with Airbags for Both Seats	3,3
	Four- Point belt with airbag integrated to cabin inside shoulder belt	
	Inertia reel for shoulder belts, installed to main bulkhead	
	Crash sensors installed under passenger seat	
70310	Large Battery (required for advanced avionic)	3,2
	Battery 12V / 14Ah Lead-Acid instead of Battery 12V / 7Ah Lead-Acid	
	Required when one of the advanced avionic packages is selected	
70311	Advanced Battery Lithium-Iron-Phosphate Technology (10Ah)	-0,8
	Lithium-Iron-Phosphate Battery 12V / 10Ah instead of Lead-Acid Battery 12V / 7Ah or 14Ah	
	Designed to replace 14 to 20 Ah Lead-Acid battery, fast recharge, low self discharge rate	
	220V Battery Charger included in package	
BASIC AVIONIC PACKAGES (no combination with Advanced Avionic Packages possible)		
70445	Upgrade Garmin 328 Mode S Transponder	0,5
	Transponder Garmin GTX 328 Mode S installed with antenna instead GTX 327	
	No support of TIS functionality	
	Reduced transmission power, and therefore reduced power consumption compared to GTX 330	
70450	Upgrade Garmin 330 Mode S Transponder	0,5
	Transponder Garmin GTX 330 Mode S installed with antenna instead GTX 327	
70407	Upgrade Garmin GPS 696 XM	0,8
	GPS Garmin 696 with XM function - Americas database	
ADVANCED AVIONIC PACKAGES (no combination with Basic Avionic Packages possible)		
70460	Avionic Package Garmin G3X	4,3
	Enhanced (wider) instrument console with four individual panels	
	Alternative suite instead of Avionic installed to basic aircraft; including:	
	Garmin Double Screens GDU 370 and GDU 375 (7" landscape format) provide full PFD and full MFD functionality	

Order No.	Description	Weight
	Full EMS functionality Independent sensor units supporting all functions, installed at convenient locations Intercom PM 3000 A with aux music input and connection to GPS Audio Two Headset Telex Echelon 25 XT with plug connectors next to the seats 2 x LEMO Redell Connectors installed for ANR Headset, in addition to standard plugs Garmin SL-30 NAV/COM Transceiver installed with GS capable NAV Antenna CI 158 at the upper vertical tail Garmin GTX 330 Transponder Mode S G3X suite linked up with Transponder and Transceiver TIS functionality through link-up with GTX 330 Integrated GPS functionality with XM capability allows full navigation support Jeppesen aviation database with terrain and obstacle database (updates / subscription not included!) KANNAD AF 406 Compact ELT 406 MHz Analog Instrumentation - providing redundancy together with Glass Screens: Airspeed indicator 2 ¼" Altimeter 2 ¼" Trutrak ADI 2 ¼" with built-in backup battery Magnetic compass with deviation table Hobbs hour meter	
70465	Downgrade no XM functionality for Garmin G3X package (only with Garmin Package G3X)	-0,1
	Implementation of Garmin GDU 370 Display Unit instead of GDU 375 Option removes XM receiver and therefore XM functionality from the units. XM is only available in North America, due to satellite coverage. Functionality identical to GDU 375, only no XM receiver and functionality included	
70412	Upgrade Garmin GNS 430 Nav/Com/GPS (only with Garmin Package G3X)	1,8
	Garmin GMA 240 audio panel replacing Intercom PM 3000 A Second COM antenna installed to the underside of the fuselage Antenna splitter and diplexer to support both VOR / GS receivers from one VOR antenna with all signals Required to support GPS steering on FD Pilot VSGV	
70413	Upgrade Garmin GNS 530 Nav/Com/GPS (only with Garmin Package G3X)	2,7
	Garmin GMA 240 audio panel replacing Intercom PM 3000 A Second COM antenna installed to the underside of the fuselage Antenna splitter and diplexer to support both VOR / GS receivers from one VOR antenna with all signals Required to support GPS steering on FD Pilot VSGV	
70470	Avionic Package Dynon SkyView (alternative to all of the above Advanced Avionic selections)	2,9
	Enhanced (wider) instrument console with four individual panels Alternative suite instead of Avionic installed to basic aircraft; including: Dynon Double Screens SkyView SV-D1000 (10" portrait format) with integrated backup batteries Dynon ADAHRS (Air Data Attitude Heading Reference System) in both wings Dynon system with two pitot / AoA tubes, one per wing attached to the respective ADAHRS Independent sensor and GPS units supporting all functions, installed at convenient locations Garmin SL-40 COM installed with antenna Dynon SV-XPNDR-261 Class 1 Transponder Altitude Encoder Dynon Intercom PM 3000 A with aux music input and connection to GPS Audio Two Headset Telex Echelon 25 XT with plug connectors next to the seats 2 x LEMO Redell Connectors installed for ANR Headset, in addition to standard plugs SkyView suite linked up with COM and Transponder Synthetic vision, moving map functionality KANNAD AF 406 Compact ELT 406 MHz Magnetic compass with deviation table Hobbs hour meter Jeppesen NAV/VFR and Obstacle Database available (subscription) - not included!	

Order No.	Description	Weight
70471	Avionic Package Dynon SkyView (PtF / EASA ELA 1 aircraft) (alternative to all of the above Advanced Avionic selections)	3,2
	Enhanced (wider) instrument console with four individual panels	
	Alternative suite instead of Avionic installed to basic aircraft; including:	
	Dynon Double Screens SkyView SV-D1000 (10" portrait format) with integrated backup batteries	
	Dynon ADAHRS (Air Data Attitude Heading Reference System) in both wings	
	Dynon system with two pitot / AoA tubes, one per wing attached to the respective ADAHRS	
	Independent sensor and GPS units supporting all functions, installed at convenient locations	
	Garmin SL-40 COM installed with antenna	
	Garmin GTX 330 Transponder Mode S	
	Altitude Encoder ACK A30	
	Intercom PM 3000 A with aux music input and connection to GPS Audio	
	Two Headset Telex Echelon 25 XT with plug connectors next to the seats	
	2 x LEMO Redell Connectors installed for ANR Headset, in addition to standard plugs	
	SkyView suite linked up with COM and Transponder	
	Synthetic vision, moving map functionality	
	KANNAD AF 406 Compact ELT 406 MHz	
	Magnetic compass with deviation table	
	Hobbs hour meter	
	Jeppesen NAV/VFR and Obstacle Database available (subscription) - not included!	
70472	Upgrade Dynon SV-Map-270 Navigation Mapping Software	0
70473	Upgrade Garmin GPS AERA 510 XM (only with Dynon Package SkyView)	0,8
	GPS Garmin AERA 510 with XM function - Americas database	
	AirGizmos AERA Panel Mount included	
70474	Upgrade Garmin GPS 696 XM (only with Dynon Package SkyView)	1,1
	GPS Garmin 696 with XM function - Americas database	
	Interfaces to:	
	SL-40 COM or SL-30 NAV/COM Transceiver (depending order selection)	
	GTX 330 or SV-XPNDR-261 Transponder	
	TIS functionality (availability depending from ground station coverage)	
70476	Upgrade Garmin SL-30 Nav/Com (only with Dynon SkyView Package, replacing SL-40 Com)	1,0
	Garmin SL-30 NAV/COM installed instead of SL-40 COM, with GS capable NAV Antenna CI 158 at the upper vertical tail	
70414	Upgrade Garmin GNS 430 Nav/Com/GPS (only with Dynon SkyView Package) (for PtF / EASA ELA 1 aircraft not possible to select GPS 695 with this option)	1,5
	Garmin GNS 430 Nav/Com/GPS installed instead of SL-40 COM, with GS capable NAV Antenna CI 158 at the upper vertical tail	
	Antenna diplexer to support both VOR / GS receivers from one VOR antenna with all signals	
	CDI / NAV display on SkyView through Dynon ARINC 429; no separate CDI	
GENERAL AVIONIC OPTIONS		
70475	Upgrade Garmin SL-30 Nav/Com (only for Club Analog and Club D60)	1,0
	Garmin SL-30 NAV/COM installed instead of SL-40 COM, with GS capable NAV Antenna CI 158 at the upper vertical tail	
	When linked to Dynon EFIS D60, CDI NAV display; no separate CDI	
70404	Garmin GPS AERA 500 / 695 without XM Function - Americas Database	-0,3
	GPS Garmin AERA 500 / 695 without XM Function for countries covered by Americas Database	
70405	Garmin GPS AERA 500 / 695 without XM Function - Atlantic Database	-0,3
	GPS Garmin AERA 500 / 695 without XM Function for countries covered by Atlantic Database	
70406	Garmin GPS AERA 500 / 695 without XM Function - Pacific Database	-0,3
	GPS Garmin AERA 500 / 695 without XM Function for countries covered by Pacific Database	
70490	Omission of Headsets	-1,2

Order No.	Description	Weight
AUTOPILOT (non- certified)		
70510	FD Pilot 2 Axis (not for Dynon SkyView)	3,4
	Autopilot based on Trutrak Digiflight II FP, customised for Flight Design	
	Aileron control according GPS route, GPS track or wing leveling	
	Automatic altitude hold	
	Later upgrade possible	
70520	FD Pilot 2 Axis + vertical speed (not for Dynon SkyView)	3,4
	Autopilot based on Trutrak Digiflight II FP, customised for Flight Design	
	Aileron control according GPS route, GPS track or wing leveling	
	Automatic altitude hold	
	Automatic vertical speed control	
70530	FD Pilot VSGV (only together with Garmin Package G3X)	3,4
	Autopilot based on Trutrak Digiflight II FP, customised for Flight Design	
	Aileron control according GPS route, GPS track or wing leveling	
	Automatic altitude hold	
	Automatic vertical speed control	
	GPS Steering, including vertical profile (requires connection to GNS 430 or 530)	
70540	Dynon Autopilot (with Dynon Package SkyView - Servos only)	2,5
	Autopilot commanded directly from Dynon SkyView Screens and Controls	
	Aileron control includes: Heading hold, Track hold, Bug select, Bug preselect, HSI nav, GPS steering	
	Elevator Control includes: Altitude hold, Altitude select / change, Altitude preselect, Airspeed limits	
	Future software update planned with Vertical speed hold, Vertical speed select, Vertical Nav	
DISPLAY UNITS		
70600	Display in km/h, °C, Altitude ft - mbar and Vario ft/min	0
70610	Display in kts, °C, Altitude ft - mbar and Vario ft/min	0
70620	Display in kts, °F, Altitude ft - in Hg and Vario ft/min	0
DESIGN SELECTION AND MARKINGS		
70940	Four color decals "Wave 1"	0
70941	Four color decals "Wave 2"	0
70942	Four color decals "Wave 3"	0
70943	Four color decals "Wave 4"	0
70944	Four color decals "Wave 5"	0
70950	Four color decals "Storm 1"	0
70951	Four color decals "Storm 2"	0
70952	Four color decals "Storm 3"	0
70953	Four color decals "Storm 4"	0
70954	Four color decals "Storm 5"	0
70955	Three color decals "Classic 1"	0
70956	Three color decals "Classic 2"	0
70990	Call Signs	0,3
	Call signs as decals in black prepared and attached (1x per fuselage side, 1x lower wing skin, depending on national regulations)	
ADDITIONAL PAPERWORK		
70090-1	LSA Conformity Statement	-
	Aircraft produced in conformance with LSA design standard and applicable LSA rule	
	Engine ASTM compliant	
	LSA Conformity statement (FAA Form 8130-15 or equivalent, as required by country)	
70090-2	EASA approved Flight Conditions for PtF	-
	Aircraft produced in conformance with LSA design standard and applicable LSA rule	
	Engine ASTM compliant	
	LSA Conformity statement (FAA Form 8130-15 or equivalent, as required by country)	
	EASA Permit to Fly EASA approved Flight Conditions (required to register the Aircraft at NAA with PtF)	
70800	Export Paperwork	-
	Conformity statement	
	Export Certificate	

Price List CTLS and CTLS^{HL} 600 kg Class, Model Year 2011

Prices and technical specifications are subject to change without previous notice

Prices for equipment are incl. installation on new aircraft

Delivery ex Flight Design Logistik Bretnig- Hauswalde

	Order Number	Weight [kg]	Price € excl. VAT	Order Selection	Availability per Aircraft Platform		
					CTLS / CTLS ^{HL} Club Analog	CTLS/CTLS ^{HL} Club D60	CTLS/CTLS ^{HL} Advanced
AIRPLANE BASIC PLATFORM							
	70032	326,5	84 016,92 €		CTLS	Not available	Not available
	70033	329,0	85 261,58 €		Not available	CTLS	Not available
	70035	333,1	87 586,18 €		Not available	Not available	CTLS
	70042	349,4	96 416,92 €		CTLS ^{HL}	Not available	Not available
	70043	351,9	97 661,58 €		Not available	CTLS ^{HL}	Not available
	70045	356,0	99 986,19 €		Not available	Not available	CTLS ^{HL}
CERTIFICATION							
	70091	0,0	7 500,00 €		+	+	+
	70092	0,0	2 500,00 €		+	+	+
OPTIONS ENGINE							
	70130	16,0	12 900,00 €		+	+	+
	70120	3,8	453,97 €		+	+	included
ACCESSORIES							
	70200	12,8	6 699,74 €		+	+	Not available
	70201	-0,7	-150,00 €		+	+	Not available
	70210	1,9	2 521,05 €		+	Not available	Not available
	70211	-0,3	-550,00 €		+	Not available	Not available
	70212	1,6	1 971,05 €		Not available	+	Not available

	Order Number	Weight [kg]	Price € excl. VAT	Order Selection	Availability per Aircraft Platform		
					CTLS / CTLS ^{HL} Club Analog	CTLS/ CTLS ^{HL} Club D60	CTLS/ CTLS ^{HL} Advanced
Comfort Package Advanced incl. Nightflight Package	70230	13,5	6 694,00 €		Not available	Not available	+
Omission of sun visors	70231	-0,7	-150,00 €		Not available	Not available	+
Complete System for Glider and Banner Towing	70240	5,8	1 971,53 €		+	+	+
Landing Light (only with Comfort Package; included to Nightflight Package)	70250	0,3	200,20 €		+	+	included Comf Pkg.
Landing Light in LED technology (only with Comfort Package)	70251	0,5	514,50 €		+	+	+
Tundra Wheels CTLS (only with Comfort Package)	70265	6,5	990,00 €		+	+	+
Photowindow	70270	0,7	543,90 €		+	+	+
3-Blade Variable Pitch Propeller	70285	5,5	3 670,00 €		+	+	+
3-Blade Constant Speed Variable Pitch Propeller	70287	5,6	4 720,00 €		+	+	+
Interior leather "Pegaso" brown including improved upholstery (only together with Comfort Package and Sport Seat)	70290	2,5	862,98 €		+	+	+
Interior leather "Noir" black including improved upholstery (only together with Comfort Package and Sport Seat)	70295	2,5	862,98 €		+	+	+
Two tone cabin interior paint, grey / anthracite matching with leather color structured surface, high abrasion resistance	70295-1	0,0	0,00 €		+	+	+
Two tone cabin interior paint, brown / beige structured surface, high abrasion resistance	70295-2	0,0	0,00 €		+	+	+
Seat Belts Amsafe with Airbags for Both Seats	70300	3,3	4 250,00 €		+	+	+
Large Battery (required for advanced avionic)	70310	3,2	80,00 €		+	+	+
Advanced Battery Lithium-Iron-Phosphate Technology (10Ah)	70311	-0,8	628,00 €		+	+	+
BASIC AVIONIC PACKAGES (no combination with Advanced Avionic Packages possible)							
Upgrade Garmin 328 Mode S Transponder	70445	0,5	950,00 €		+	+	+
Upgrade Garmin 330 Mode S Transponder	70450	0,5	1 980,00 €		+	+	+
Upgrade Garmin GPS 696 XM	70407	0,8	1 670,00 €		+	+	+
ADVANCED AVIONIC PACKAGES (no combination with Basic Avionic Packages possible)							
Avionic Package Garmin G3X	70460	4,3	on request		Not available	Not available	+
Downgrade no XM functionality for Garmin G3X package (only with Garmin Package G3X)	70465	-0,1	-450,00 €		Not available	Not available	+
Upgrade Garmin GNS 430 Nav/Com/GPS (only with Garmin Package G3X; on top of SL-30)	70412	1,8	8 700,00 €		Not available	Not available	+

	Order Number	Weight [kg]	Price € excl. VAT	Order Selection	Availability per Aircraft Platform		
					CTLS / CTLS ^{HL} Club Analog	CTLS/ CTLS ^{HL} Club D60	CTLS/ CTLS ^{HL} Advanced
Upgrade Garmin GNS 530 Nav/Com/GPS (only with Garmin Package G3X; on top of SL-30)	70413	2,7	12 400,00 €		Not available	Not available	+
Avionic Package Dynon SkyView	70470	2,9	4 680,00 €		Not available	Not available	+
Avionic Package Dynon SkyView (PiF / EASA ELA 1 aircraft)	70471	3,2	5 980,00 €		Not available	Not available	+
Upgrade Dynon SV-Map-270 Navigation Mapping Software	70472	0,0	438,00 €		Not available	Not available	+
Upgrade GPS Garmin AERA 510 XM (only with Dynon Package SkyView)	70473	0,8	1 598,00 €		Not available	Not available	+
Upgrade GPS Garmin 696 XM (only with Dynon Package SkyView)	70474	1,1	2 570,00 €		Not available	Not available	+
Upgrade Garmin SL-30 Nav/Com (only with Dynon SkyView Package, replacing SL-40 Com)	70476	1,0	2 575,00 €		Not available	Not available	+
Upgrade Garmin GNS 430 Nav/Com/GPS (only with Dynon SkyView Package, replacing SL-40 Com) (for PiF / EASA ELA 1 aircraft not possible to select GPS 695 with this option)	70414	1,5	7 380,00 €		Not available	Not available	+
GENERAL AVIONIC OPTIONS							
Upgrade Garmin SL-30 Nav/Com	70475	1,0	2 075,00 €		+	+	Not available
Garmin GPS AERA 500 / 695 without XM Function - Americas Database	70404	-0,3	-344,54 €		+	+	+
Garmin GPS AERA 500 / 695 without XM Function - Atlantic Database	70405	-0,3	-344,54 €		+	+	+
Garmin GPS AERA 500 / 695 without XM Function - Pacific Database	70406	-0,3	-344,54 €		+	+	+
Omission of Headsets	70490	-1,2	-280,00 €		+	+	+
AUTOPILOT (non- certified)							
FD Pilot 2 Axis (not for Dynon SkyView)	70510	3,4	3 580,00 €		+	+	+
FD Pilot 2 Axis + vertical speed (not for Dynon SkyView)	70520	3,4	4 040,00 €		+	+	+
FD Pilot VSGV (only together with Garmin Package G3X)	70530	3,4	4 850,00 €		Not available	Not available	+
Dynon Autopilot (only with Dynon Package SkyView - Servos only)	70540	2,5	1 780,00 €		Not available	Not available	+
DISPLAY UNITS							
Display in km/h, °C, Altitude ft - mbar and Vario ft/min	70600	0,0	0,00 €		+	+	+
Display in kts, °C, Altitude ft - mbar and Vario ft/min	70610	0,0	0,00 €		+	+	+
Display in kts, °F, Altitude ft - in Hg and Vario ft/min	70620	0,0	0,00 €		+	+	+

	Order Number	Weight [kg]	Price € excl. VAT	Order Selection	Availability per Aircraft Platform		
					CTLS / CTLS ^{HL} Club Analog	CTLS/CTLS ^{HL} Club D60	CTLS/CTLS ^{HL} Advanced
DESIGN SELECTION AND MARKINGS							
Four color decals "Wave 1"	70940	0,0	0,00 €		+	+	+
Four color decals "Wave 2"	70941	0,0	0,00 €		+	+	+
Four color decals "Wave 3"	70942	0,0	0,00 €		+	+	+
Four color decals "Wave 4"	70943	0,0	0,00 €		+	+	+
Four color decals "Wave 5"	70944	0,0	0,00 €		+	+	+
Four color decals "Storm 1"	70950	0,0	0,00 €		+	+	+
Four color decals "Storm 2"	70951	0,0	0,00 €		+	+	+
Four color decals "Storm 3"	70952	0,0	0,00 €		+	+	+
Four color decals "Storm 4"	70953	0,0	0,00 €		+	+	+
Four color decals "Storm 5"	70954	0,0	0,00 €		+	+	+
Three color decals "Classic 1"	70955	0,0	0,00 €		+	+	+
Three color decals "Classic 2"	70956	0,0	0,00 €		+	+	+
Call Signs	70990	0,3	0,00 €		+	+	+
ADDITIONAL PAPERWORK							
LSA Conformity Statement	70090-1	0,0	0,00 €		included	included	included
EASA approved Flight Conditions for PtF <small>(actual EASA Fees, subject to change)</small>	70090-2	0,0	723,94 €		+	+	+
Export Paperwork	70800	0,0	on effort		+	+	+

Sum according to selection *	0,0	0,00 €
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Payment Schedule:	
First down payment on order, when expected date of delivery is more than 5 months away	5 000,00 €
Second down payment at least 5 months before expected delivery date	20 000,00 €
Total down payment	25 000,00 €
Final payment right before delivery ex Ukraine (Net value) **	-25 000,00 €
Total payment (Net value) **	0,00 €

** Total payment value enhances by legally required sales taxes as applicable

* weights can differ by 3% of the total specified weight



Flight Design GmbH

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